

From boatanchors@theporch.com Sat Dec 30 18:10:07 1995
From: Brien Pepperdine <pepperb@gov.on.ca>
Subject: 390A manual - got one, do I need another?
Message-ID: <Pine.OSF.3.90.951230152919.9625A-100000@govonca2.gov.on.ca>

I recently acquired TM 11-5820-358-35, Field and Depot Maintenance Manual
Radio Receiver R-390A/URR (8 Dec. 1961)

Looks like fun, but as in all things, the caveat. I supercedes previous
issues from '56-onward, so that's life, I don't have all versions of my
flytying 'classics' either. At least it tells what the mods are.
I'll cross that bridge of previous issues if and when necessary. But from
its introduction
and References, how much utility is there in the 'companion' manuals?

358-10.... The Operators Manual
358-20.... The Organizational Maintenance Manual
358-20P....Organizational Maintenance Parts and Special Tool List
358-35P.... Field and Depot Parts and Special Tools List

Those 'parts' are not likely going to be in my 'depot' here, and tools
are what I have or might get/borrow (spline/Bristo wrenches).

But... the Operators Manual? More than the obvious in there?
And... The Organizational Maintenance Manual? This one I am very curious
about, since the one manual I have is for third, fourth and fifth echelon
maintenance. Do I require the first two echelons as well?

Anyhow, anyone with opinions, answers and or a manual photocopy where
available is invited. I sort of hope there is a copy out there someone
might have that is an unbound photocopy that they might easily slip
through the autofeed of a copier (I do realize there are some likely
larger pages of schematics that might require 11x17 copying). Anyhow,
anything toward my edification, education and references on the 390A that
is coming back to life here would be appreciated. Email address below.

Of course, trades of copies might be done too. I assume I am going to
flat bed copy this manual - I'll use the result as a master for autofeed
copies later.

Brien
Toronto VE3VAW

pepperb@gov.on.ca

From boatanchors@theporch.com Sat Dec 30 18:10:07 1995

From: "Manuel A. Maseda" <mmaseda@Packet.Net>
Subject: 75A-4 Production Test Procedure
Message-ID: <01BAD619.FD9D9780@clw008.packet.net>

I recently was reviewing some documentation I picked up at an estate =
sale and ran across an interesting document. It is a typed original (14 =
pages including hand drawings) of the Collins Radio Company Production =
Test Procedure for the 74A-4 Amateur Receiver prepared by G. W. =
Stevens. It is dated November 3, 1954 - Revised July 3, 1957. Collins =
Document # TM-303-8 and contains very detailed step by step alignment =
procedures. After the first of the year I'll duplicate this document =
and make it available for a small copying and mailing fee. I'll post a =
message with the details at that time.

Does anyone know the history of these type of documents and who G. W. =
Stevens was? Also does anyone have a similar document on the KWS-1 =
alignment procedure. The one in the manual tends to be a bit confusing =
to follow.

Manuel WF1J

From boatanchors@theporch.com Sat Dec 30 18:10:07 1995
From: sully@cetbbs.com (Sully)
Subject: <none>
Message-ID: <82031524701@bbs.cetbbs.com>

Hello BA'ers,
Threads of late have covered difficulty finding/remembering #'s for TM/FM/TO
for boat anchors. Went surfing at the local library this morning and found a
couple of url's that might be of interest.

first a couple of museums, the Signal Corps Museum at Ft Gordon, Ga. is
online

<http://147.51.200.6/museum>

a note on their site stated that they were in the process of digitizing
15,000 TM's & FM's and hoped to have it/them online by 1997

the Patton museum of Armor at Ft. Knox, Ky. is a good one. they have a
web site but its still under construction.

<http://147.238.100.101>

And lastly a return to Ft. Gordon. There is the US Army Signal Corps
online

<http://www.gordon.army.mil>

this gets a WAIS searchable database. I'm not real familiar with this search engine. I used a couple of random TM #'s that I remembered from my years as a field radio repairman and did a couple of searches. If you can figure your way around there's a whole lot of info there.

Hope these are/will be useful. Mike

Mike "Sully" Sullivan - - N0QFV - - sully@cetbbs.com
Olympic Memorabilia Collector - - Stamp Collector
- - RVN 1-71 to 12-71 1st Air Cav - -

.. Do what you will with this tagline, just don't bother me about it!

___ Blue Wave/QWK v2.20 [NR]

From boatanchors@theporch.com Sat Dec 30 18:10:07 1995
From: "Richard L. Duell" <rduell@iac.net>
Subject: Aero-O-Com Tuner
Message-ID: <199512301341.IAA13652@little-miami.iac.net>

I've made a new year's resolution that I am starting on early. All this radio/electronic stuff I have been saving for for these many years gets evaluated as a "Keeper" or "Let's Make Some Room Around Here".

I've started with an antenna tuner that sorta looks military but sorta doesn't. It is obviously an airborne unit, has a military type plug, black crackle on parts of the case, very solid, etc. The label says "AER-O-COM Model ATT, Antenna Tuner - Type 4". It's an autotune unit with a single tube, lots of relays to switch capacitance in and out, etc. The manufacturer is Aeronautical Communications Equipment Inc., Miami, FL.

Anyone out there have any details re this unit? Frequency coverage, schematic, power ratings, etc.? Any info will be appreciated.

73,

Rich - W5VDU

From boatanchors@theporch.com Sat Dec 30 18:10:07 1995

From: TOM.A.ADAMS@mail.admin.wisc.edu
Subject: Apologies to BA folks
Message-ID: <FCUF0438.FCUF0449@mail.admin.wisc.edu>

to: boatanchors@theporch.com

Greetings, Troops.

I have to extend apologies for delays in answering messages directed to me, and for similar delays in sending out promised packages, etc.

Aprox. 1730 UT on Xmas Eve I received a message via Telco informing me that my mother had passed away in her sleep in another state. I had no computer contact available, and I got back into E-MAIL contact a half hour ago. My mailbox is STUFFED (in excess of 1200 messages!). It's gonna take a bit of time to wade thru it all.

Promised QST mailings will hopefully resume on Tuesday.

Tom, K9TA

From boatanchors@theporch.com Sat Dec 30 18:10:07 1995
From: mike <michaels@kc2kj.k2nesoft.com>
Subject: art-13 manual and conversion data wanted
Message-ID: <199512300245.VAA13822@kc2kj.k2nesoft.com>

Well, I just bought an art-13. Now I would like to get a tech manual or copy and copies of some conversion articles. Any help out there?

thanks in advance....

mike

kc2kj

--

Michael Sullivan --- michaels@kc2kj.k2nesoft.com

From boatanchors@theporch.com Sat Dec 30 18:10:07 1995
Subject: Boatanchor Sale

Boonton (HP) 230A instrumentation amplifier	\$350
Heath Apache TX-1 unblemished panel w/SB10 nmr	\$200
KWM2A winged needs repair	\$275
HW16 w/HG10--vfo has cracks in drum & nmr	\$60
R390, Collins-built, order 14214 PH 51 93	\$275

All of the above are in good working order (no promises on tubes; they don't ship well).

All prices are plus shipping and "or best offer". Will consider offers on

the lot.

I reserve the right to refuse any offer (e.g. proof of ham license required for transmitter purchase).

E-mail KA9EGW@aol.com or tel (708) 487-5424/fax487-5359.

----- Forwarded message ends here -----

Dick Dillman
WPE2VT N6VS ex-WA2BJK
<ddillman@igc.apc.org>
Collector of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Sat Dec 30 18:10:07 1995
From: "Dick Dillman" <ddillman@igc.apc.org>
Subject: Brandes 'Phones FS
Message-ID: <55514.ddillman@igc.apc.org>

I have a pair of Brandes Superior earphones available. The phones themselves are silver-colored (probably aluminum) with screw-on black plastic caps and metal diaphragms. The back of each phone is embossed with the manufacturer's name and the designation "Matched Tone" in a nice script. Cloth covered leads terminated in ring terminals attach to the back of each phone via nut-and-bolt terminals. A 1/4" phone plug is installed at the other end. The headbands are non-covered spring steel with a blued finish. Up and down adjustment of the phones is via a friction arrangement.

Anyone interested in these at somewhere around \$10 FOB San Francisco?

Dick Dillman
WPE2VT N6VS ex-WA2BJK
<ddillman@igc.apc.org>
Collector of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Sat Dec 30 18:10:07 1995
From: rohrwerk@netcom.com (John Seboldt)
Subject: Drake 2B and Dial Cord
Message-ID: <199512300151.RAA06421@netcom9.netcom.com>

While in QSO on 80 meter CW with a guy in Iowa, he talked about a lot of his old receivers. That inspired me to fire up the old Drake 2B, on the bench but not started up in 3 years.

It worked! Trouble was, the dial cord was stretched, so I couldn't tune it worth a damn, but I was able to get on his frequency and use it for the rest of the QSO. What a nice set of memories.

I thought, why not get this ready for Straight Key Night? So, on opening up the case, the dial cord was frayed. It broke while trying to tighten it up. Sooo, it's now strung with nylon monofilament fishing line, but I'm not counting on that lasting too long. Any readily-available durable alternatives, or a source of the real thing?

Selectivity of those LC filters is of course only fair. A moderately strong signal can be heard on the "other side" -- is this to be expected? I can't remember from years ago, and I've been spoiled by sharp crystal filters since then :-). I did once (5 years ago) ignore the manual's dire warnings and made small tweaks of the 50 kHz IF coils to get the narrow bandwidth as sharp as possible -- a barely noticeable improvement that didn't seem to hurt anything else.

On coming back to it, I am even more annoyed at something I didn't like about the rig even in earlier years: not a whole lot of highs in the audio in the widest mode. There's a big 3 kHz lowpass filter right there in the audio stages -- great for communications, a bit mushy for AM listening.

: John Seboldt rohrwerk@netcom.com / CW: It don't mean a thing
: K0JD... Minneapolis, MN / if it ain't got that swing!
: My R2/T2 station described in / Di dah, di dah, di dah...
> <http://www.lehigh.edu/lists/qrp-l/k0jd/index.html> <

From boatanchors@theporch.com Sat Dec 30 18:10:07 1995
From: "C. J. Hawley Jr." <hawley@aries.scs.uiuc.edu>
Subject: FS:50 ARRL Radio Amateur Handbooks '35-'85
Message-ID: <30E5C021.ABB@aries.scs.uiuc.edu>

For Sale: Very good condition ARRL handbooks (replaced many of them over the years with better ones). 50 books from the years 1935 to 1985 (no two the same of course). Pickup is probably the only way. \$500.

Contact: Bruce Balsley W90TN (Old Tired Novice)
195 Blackthorn Dr.
Valparaiso, Indiana

46383
219-531-0077

Please call or write Bruce. He doesn't have email or even a computer (he's a retired IBM'er so I guess he had his share of this stuff).

Chuck, KE9UW

From boatanchors@theporch.com Sat Dec 30 18:10:07 1995
From: "Dick Dillman" <ddillman@igc.apc.org>
Subject: Fwd: Boatanchor Sale
Message-ID: <68144.ddillman@igc.apc.org>

NOTE The following message is a re-post from rec.radio.swap -
peplies must go to ka9egw@aol.com, not me.

----- Forwarded message begins here -----
From: KA9EGW <ka9egw@aol.com >
Newsgroups: usenet.rec.radio.swap
From boatanchors@theporch.com Sat Dec 30 18:10:07 1995
From: KWDouglas@aol.com
Subject: Re: How soon we forget
Message-ID: <951229221920_26970867@emout04.mail.aol.com>

>on the subject of ground buses.....why spend \$23 or \$30

Mike, Bobbi, & Jack have all made excellent & innovative points.
Grounding for RF, RFI, & lightning all require short, low inductance
leads. And for low inductance, it is hard to beat something with
lots of surface area, such as copper water pipe or flat copper strap
(not braid). The "skin effect" of RF current and the fast rise
time of a lightning strike fairly well eliminates usage of most of the
copper "inside" a conductor. A 1/2" copper pipe is just about as
good an RF or lightning "conductor" as SOLID 1/2" wire. Help
keep copper prices down, use copper tubing!

An even better (lower inductance) solution is copper strap. For
instance, a 1.5" width copper strap has 3" of effective surface area
(as long as it is thicker than about .01"). A comparison of 1.5"
copper strap to a commercially used grounding wire (2/0 AWG,
> .1" dia) finds that the wire exhibits almost 3uH per 8' while
the strap is less than 2.3uH per 8'. Forget about that hunk of 12
10 AWG mined from a scrap of Romex house wiring being the
most effective RF ground/lightning lead you can use! Even 6 AWG
exhibits more than 3.3uH.

Sources for copper strap include upscale and specialty roofing companies. They often will let go of leftover copper flashing for scrap copper prices. It will most likely be wider than 1.5" and you will have to cut it down to a workable width. However, the more surface area the better! Another source would be scrap metal buyers. Check your Yellow Pages.

Erico, Solon, OH, provides a 2" copper strap to their distributors (electrical supply houses). They also supply a superb exothermic welding system for fastening strap to ground rods.

At the risk of becoming a "flame" magnet I'll point out that PolyPhaser Corp and most of their distributors stock .0159" copper strap in 1.5", 3", & 6" widths. (I work for an electronic mfrs rep company which includes PolyPhaser on their "line card"). They also mfr strap to 5/8" ground rod clamps.

Sorry for the bandwidth but I hope this helps preserve some of our beloved boatanchors from the ravages of lightning and RFI.

Kent, K9JCR, Sallisaw, OK
KWDouglas@aol.com

From boatanchors@theporch.com Sat Dec 30 18:10:07 1995
From: SCOTTPAUL@aol.com
Subject: Info wanted
Message-ID: <951230190343_27561527@emout06.mail.aol.com>

I am cross-posting this from rec.antiques.radio+phono:

Subject: WANTED: Instruction manual and drawings for SET19
From: G Jansson <info@zenza.se>
From boatanchors@theporch.com Sat Dec 30 18:10:07 1995
From: "Allan Fritsche" <fritsche@msn.com>
Subject: Matching speaker for the SX-101
Message-ID: <UPMAIL03.199512300312200730@msn.com>

Was there a matching speaker for the SX-101, Ive got an add for the receiver in an old 50's 73, but no mention of the speaker to go with it. I suppose any Halli speaker will do, 3.2 ohms. Iam currently using a rat shack car speaker at 4 ohms, best iCould do.

Al Fritsche
fritsche@msn.com
attmail!fritsche

From boatanchors@theporch.com Sat Dec 30 18:10:07 1995
From: w7ni@teleport.com (Stan Griffiths)
Subject: Military Headset FS
Message-ID: <199512300410.UAA28769@desiree.teleport.com>

I found another HS-16A headset buried in a drawer. This headset is in excellent condition and even the cord shows no signs of wear. The olive drab cloth covered headband has the letters "HB-1" printed on it in black letters.

I will accept bids on this headset until January 7, 1996. Include \$5 shipping and handling and let me know if your offer includes the \$5 shipping and handling or not.

I know some of you would prefer that I name a price but, since I don't know what it will bring, I want you to name a price.

Stan W7NI@teleport.com

From boatanchors@theporch.com Sat Dec 30 18:10:07 1995
From: Bill Meara <74537.1100@compuserve.com>
Subject: More 1960's QST...
Message-ID: <951230211428_74537.1100_EHH96-1@CompuServe.COM>

I've continued my perusal of the 1966-1968 editions of QST....

-- I mentioned the art work that adorned the old "How's DX" section. Today I was saddened to come across the obituary of the artist - Phil Gildersleeve, W1CJD. Phil passed away in Nov. 1966. He was the creator of all those great cartoons with Jeeves and the Podunk ARC.

-- The August 1966 edition has a great article with a BA angle: Jorge Barbosa, CR6A0, describes the activities of C. Bettencourt Faria, CR6CH. Jorge met Mr. Bettencourt in a small village near Luanda, Angola. An avid amateur scientist and ham, Bettencourt was at the time engaged in an amazing variety of scientific projects, including the construction of amateur radio telescopes (an unusual hobby in 1966 Angola!). Equipment trouble had put Bettencourt off the ham bands, but at Jorge's urging he got in touch with some U.S. hams who provided the crystal needed to get his ART-13 working properly. FB!

Happy New Year to all - Hope to work you on SKN!
73! Bill N2CQR/HI8
74537.1100@compuserve.com
Santo Domingo, Dominican Republic

Running: HT-37, 2-B, HW-101, HQ-100 (with SP-600, SX-43 and Benton Harbor Lunchboxes awaiting repairs)

From boatanchors@theporch.com Sat Dec 30 18:10:07 1995
From: waltn@hooked.net (Walt Novinger)
Subject: NC-2-40D question
Message-ID: <199512301758.JAA05755@mom.hooked.net>

Happy New Year to all!

We have recently acquired our third NC-2-40D, and its dial is a bit of a surprise to us. All those we have had and have seen in others' collections have the vernier dial concentric with the main dial pointer (i.e., in the center of the dial); the dial is "silver" with engraved markings. Also, all the others have the bandspread dial scales located together in the inner rings of the dial, with the general coverage bands located on the outer rings. The dial pointers all have alternating red and black bands painted on them.

Our latest radio has the vernier located below the center of the dial, with its center just above the bottom of the dial face (i.e., about 1/3 of the vernier dial is hidden); the dial is black with white markings. There is a small triangular plastic graticule on top and in front of the vernier (a la the Hallicrafters Sky Buddy, etc.). The bandspread scales are mixed with the general coverage scales in ascending order from BC band on out to the top of the SW bands. The dial pointer is all-black. The nomenclature on the dial is identical, (National NC-2-40D), tho the newest one does have markings on the band scales (and legends in the center below the dial pointer) for "Police", "Amateur", and "Foreign" broadcasts.

Other than these differences in the dials, the radios appear to be identical. So, the question for the collective wisdom of the group is: What do we have? Is this an early prototype? A specialty model made for a particular market?

The radio was purchased as a parts unit, but appears to be in good enough shape to qualify for restoration (oh, no....not *another* one :=}), so we'd like to find out as much as we can about it.

Thanks for the help!

Walt & Therese

=====

Walt Novinger	Real Radios Keep You Warm At Night!
Collector of hollowstate communications receivers and test equipment	
waltn@hooked.net	wnovinger@shl.com CI\$:73340,2013

<http://www.hooked.net/users/waltn>

From boatanchors@theporch.com Sat Dec 30 18:10:07 1995
From: MEC <danmec@inet.uni-c.dk>
Subject: Re: PRT-1 TRANSMITTER
Message-ID: <Pine.3.89.9512300832.A4839-01000000@inet.uni-c.dk>

Anyone interested in the German gear this jammer was used against ?
have you read the article in CQ-magazine for december on CQ Panzer ?

I have the Germman Panzer radio gear for sale, in original condition
- not like the one pictured in CQ which had been " brushed up " probably
by a ham in the 1950's.

73 Rag OZ8RO

From boatanchors@theporch.com Sat Dec 30 18:10:07 1995
From: "Dick Dillman" <ddillman@igc.apc.org>
Subject: Re: R390A SSB/FAX/RTTY?
Message-ID: <55524.ddillman@igc.apc.org>

On Thu, 28 Dec 1995 23:21:44 -0600 (CST),
Richard Biddle <rbiddle@MadVax.mo.ti.com > wrote:

>2. Since the R390 does not have a product detector, how well does it perform
> for RTTY/FAX/SSB?

Greetings, Richard. Regarding the use of a R-390A on SSB, the general
opinion (including mine) is that an external SSB adapter is required
to make the radio really usable in that mode. Walt Novinger
recommends the HC-10 in an earlier message. I myself use the TMC
CV-591A. Others are applicable.

As to FAX and RTTY, I believe the R-390A really shines in these modes,
with no need for external adapters. I use my '390A to copy FAX and
find that the ability to set the BFO to the required 1.9Kc. offset is
very valuable (this can not be done in more modern radios such as the
Icom R-71A sitting on the bench here, rather intimidated by the heavy
iron surrounding it). This plus the 1Kc. mechanical filter makes for
excellent FAX reception. I expect the same would apply to RTTY as
well. After all, it is these modes the beast was really intended to
copy.

Dick Dillman

WPE2VT N6VS ex-WA2BJK
<ddillman@igc.apc.org>
Collector of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Sat Dec 30 18:10:07 1995
From: ejz@nosc.mil (Edward J. Zeranski)
Subject: Re: R390A SSB/FAX/RTTY?
Message-ID: <9512302340.AA12473@manta.nosc.mil>

>
>Folks, I have received a small windfall in the form of \$\$\$ and am considering
>adding to my boatanchor collection. I have been lusting after an R390A for
>a while and noticed Fair had some used uncheck for \$175 and checked for \$295.
>I have some questions for the 390 fans out there:

>
>1. I have done business with Fair in thepast and was always treated well,
> but are there any suggestions for an alternate supplier? On the
> basis of your experiences, is it worth the extra \$120 for them to produce
> a checked radio (I can fix almost anything given the availability of
> parts)?

>
>2. Since the R390 does not have a product detector, how well does it perform
> for RTTY/FAX/SSB?

>
>Thanks for listening.

>
>73,
>Richard, KB5WLH
>rbiddle@advax.mo.ti.com

>
> In the mid/late 60s, when I was in the Navy, the R390A was the main
if not only RX used to copy broadcast until the R1051 and tone deversity mx
came into place with the UCC-1 tone deversity multiplexer. (now they are
all Dinosaurs! GRONK!!) Check out the URA-8, URA-17, CV-571 converters
which fit in that late period . On the enhanced carrier/Costas detector
subject..... The R390A(mine is EAC #237 from 1960)has a 455KC (That right!,
KC Damn it!)output on the back which you can run to a (((SHUDDER))) solid
state sync / Costas detector and, if desired, processing. Another thing to
look for is an LS-474 Navy speaker which has the 600/8 ohm transformer which
can be used or gutted for the ever so common home-built hack.

Ed Zeranski ejz@marlin.nosc.mil, work
ezeran@powergrid.electriciti.com, home
Wooden Boats, Tube Receivers, Rusty Old Trucks, The Good Stuff!

This is a private opinion or statement and is nobody's fault but mine. No

person, employer, or govt. should try to take credit for it!

From boatanchors@theporch.com Sat Dec 30 18:10:07 1995
From: "Mark J. Blair" <mblair@gruumsh.irv.ca.us>
Subject: Replacing yellowed RT-68 tuning windows
Message-ID: <199512302146.NAA00186@gruumsh.irv.ca.us>

Hello, everybody. The windows over my RT-68's tuning dials have yellowed, making the tuning dials very hard to read. Does anybody out there know how to replace the windows? They appear to be some sort of formerly-clear plastic material which was poured into the faceplate openings, so I suspect that I could chip out the old windows and pour new ones if I knew what to use. Any ideas? I'd prefer to avoid repainting the faceplate, because it would be difficult for me to properly replace the silk-screened markings. (I push around electrons and warm up vacuum, but I have no artistic talent! :-)

For those of you not familiar with the RT-68, it's a US Army transceiver which covers 38.0 to 54.9 MHz FM, with about 16 watts out. It has two tuning knobs; one selects a 1-MHz band, and the other tunes within that band. The KHz knob has detents every 100 KHz, but by turning the knob hard against the lower stop, you can disengage the detent mechanism to get continuous tuning within each 1-MHz band. This set was typically used in vehicular installations such as tanks. It has two relatives, the RT-66 and RT-67, which cover 20-27.9 and 27-38.9 MHz, respectively. The 0.9 MHz overlap between sets is deliberate, and was intended to allow coordination between the groups which used each band (such as infantry, artillery and armor). Check out your favorite Fair Radio Sales catalog for a picture of the unit.

Thanks in advance.

--

Mark J. Blair KE6MYK
e-mail: mblair@gruumsh.irv.ca.us

From boatanchors@theporch.com Sat Dec 30 18:10:07 1995
From: Michael Crestohl <mc@shore.net>
Subject: Something for the Season!
Message-ID: <199512301350.AA24520@northshore.ecosoft.com>

Hi Boat-anchorites!!!

Now that Christmas is past and New Year is fast approaching, maybe it might be good to reflect on the following bit of scientific information:

IS THERE A SANTA CLAUS?

As a result of an overwhelming lack of requests, and with research help from that renown scientific journal SPY magazine (January, 1990) - the author is pleased to present this scientific inquiry into Santa Claus.

1) No known species of reindeer can fly. BUT there are 300,000 species of living organisms yet to be classified, and while most of these are insects and germs, this does not COMPLETELY rule out flying reindeer which only Santa has ever seen.

2) There are 2 billion children (persons under 18) in the world. BUT since Santa doesn't (appear to) handle the Muslim, Hindu, Jewish and Buddhist children, that reduces the workload to 15% of the total - 378 million according to Population Reference Bureau. At an average (census) rate of 3.5 children per household, that's 91.8 million homes. One presumes there's at least one good child in each.

3) Santa has 31 hours of Christmas to work with, thanks to the different time zones and the rotation of the earth, assuming he travels east to west (which seems logical). This works out to 822.6 visits per second. This is to say that for each Christian household with good children, Santa has 1/1000th of a second to park, hop out of the sleigh, jump down the chimney, fill the stockings, distribute the remaining presents under the tree, eat whatever snacks have been left, get back up the chimney, get back into the sleigh and move on to the next house. Assuming that each of these 91.8 million stops are evenly distributed around the earth (which, of course, we know to be false but for the purposes of our calculations we will accept), we are now talking about .78 miles per household, a total trip of 75-1/2 million miles, not counting stops to do what most of us must do at least once every 31 hours, plus feeding and etc.

This means that Santa's sleigh is moving at 650 miles per second, 3,000 times the speed of sound. For purposes of comparison, the fastest man-made vehicle on earth, the Ulysses space probe, moves at a poky 27.4 miles per second - a conventional reindeer can run, tops, 15 miles per hour.

4) The payload on the sleigh adds another interesting element. Assuming that each child gets nothing more than a medium-sized lego set (2 pounds), the sleigh is carrying 321,300 tons, not counting Santa, who is invariably described as overweight. On land, conventional reindeer can pull no more than 300 pounds. Even granting that "flying reindeer" (see point #1) could pull TEN TIMES the normal amount, we cannot do the job with eight,

or even nine. We need 214,200 reindeer. This increases the payload - not even counting the weight of the sleigh - to 353,430 tons. Again, for comparison - this is four times the weight of the Queen Elizabeth.

5) 353,000 tons traveling at 650 miles per second creates enormous air resistance - this will heat the reindeer up in the same fashion as spacecraft re-entering the earth's atmosphere. The lead pair of reindeer will absorb 14.3 QUINTILLION joules of energy. Per second. Each. In short, they will burst into flame almost instantaneously, exposing the reindeer behind them, and create deafening sonic booms in their wake. The entire reindeer team will be vaporized within 4.26 thousandths of a second. Santa, meanwhile, will be subjected to centrifugal forces 17,500.06 times greater than gravity. A 250-pound Santa (which seems ludicrously slim) would be pinned to the back of his sleigh by 4,315,015 pounds of force.

In conclusion - If Santa ever DID deliver presents on Christmas Eve, he's toast now.

Both Cynthia (VE2QF) and I would like to wish you, one and all, a very happy, healthy and prosperous 1996 filled with all the boatanchors you ever wanted! That's what I got in 1995!

73,

Michael Crestohl KH6KD (this time next year W1??)

Nahant by the sea.....in Massachusetts!

From boatanchors@theporch.com Sat Dec 30 18:10:07 1995
From: Sandy Blaize <70401.134@compuserve.com>
Subject: Test Equipment for trade..
Message-ID: <951230190230_70401.134_IHD11-1@CompuServe.COM>

Boat Anchor Test equipment for sale or trade! I'd like to move this stuff out soon as I am not using it!

Hewlett-Packard model 614A microvolt signal generator.
Covers range of 780-2100 Mhz. in one band. Pulse modulator also built-in. Used but good condition.

Hewlett-Packard model 616A mate to above. Covers 1750-4000 Mhz. in one band. Needs some working on in power supply. Otherwise in fair to good condition.

Well worn but working well, Lampkin model 205A FM Deviation meter.

Accepting reasonable offers plus shipping! If pressed, I'll come up with a price! I'd rather trade though.

Need a Heathkit IP-17 power supply (Or maybe the IP-32).
Also need a sweep generator like the old EICO 368 or 369 in good shape.

Would like to trade for for a good Hallicrafters S-53A or an S-107, possibly a National NC-88. Also looking for a Heathkit IP-17 power supply (or IP-32) and an EICO 368 or 369 sweep generator.

Sandy W5TVW
internet:70401.134@compuserve.com

From boatanchors@theporch.com Sat Dec 30 18:10:07 1995
From: "Dick Dillman" <ddillman@igc.apc.org>
Subject: Re: Tube in Sabrina?
Message-ID: <55505.ddillman@igc.apc.org>

On Wed, 27 Dec 1995 18:51:46 -0600 (CST),
Mikhael Brown <mikhael@hpcmmp13.sj.hp.com> wrote:

> If any of you see the movie Sabrina, you might notice
> on a shelf in one scene a vacuum tube. It is a 304T and
> has 4 triodes in parallel in the same envelope. This is
> not the typical movie that I would expect see a vacuum tube
> in. Just thought I would throw this in for general interest.

I saw the new Sabrina over the holidays and of course noticed the prominently displayed tube. It reminded me that the original Sabrina movie had a radio-related scene as well.

The older brother, Linus, played by Humphrey Bogart, conducted business from his car as well. But in the late 30s, which I believe is the time frame of the original, car phones were impossibly exotic. Nevertheless, it seems the producers wanted to be authentic as in one scene you can see the base of a large whip antenna on the right rear of the limo Linus uses. My guess is that he was operating somewhere in the vicinity of 2 Mc/s.

>
> 73

>
> Mike, N6WIG
>
>
> mikhael@hpcmmp13.sj.hp.com
>
>

Dick Dillman
WPE2VT N6VS ex-WA2BJK
<ddillman@igc.apc.org>
Collector of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Sat Dec 30 18:10:07 1995
From: "Terry O'Laughlin, RM:7135, #:6-6667" <OLAUGHLIN@vilas.uwex.edu>
Subject: Vilas Hall listening post
Message-ID: <MAILQUEUE-101.951229185157.416@vilas.uwex.edu>

from Rick Seifert:

> It was the middle 1970's. A friend was showing me around Vilas Hall,
> the newly constructed television facility at the University of Wisconsin.
> We walked in the door, a double sound lock as I recall. The room
> was empty save a table, chair, and ...the prize.....a Drake SPR-4.

That room must be long gone. I've worked here for 13 years and I've never seen it. All we have is a pitiful Hallicrafters SX-122 in the engineering shop for setting the master clock to WWV. There was a Technical Materiel Corp. GPR-90 in the operations center for a few years, mainly used for monitoring WHA-AM with a reasonable bandpass (although the dial was know to wander during some shifts, heh, heh).

The University of Wisconsin had all kinds of classic BAs scattered around campus. When I was a student, there was a dusty corner of the RF lab with a Collins 51J-2 and an R-390A with a 30kHz IF strip. My advisor had a Collins 51S-1 in his office. There was a Hallicrafters SX-42, with all that beautiful Raymond Loewi packaging, in the ham club, W9YT. Rumor has it that a Hallicrafters SX-88 once graced a lab, maybe in the physics dept. As far as I know, all of that gear is gone.

By the way, Vilas Hall leaks like a sieve, the bathrooms are as comfortable as meat lockers, the elevators breakdown with alarming regularity and it's the ugliest building on campus. The SPR-4 is lucky it escaped.

73 Terry O' WB9GVB

From boatanchors@theporch.com Sat Dec 30 18:10:07 1995
From: Mikhael Brown <mikhael@hpcmmp13.sj.hp.com>
Subject: WTB BC-610 Accessories
Message-ID: <199512301754.AA157436052@hpcmmp13.sj.hp.com>

Hello everyone,

I am looking for the junction box # JB-70-A, the
crystal holder box BX-34-B and crystals for a BC-610.
If anyone has any of the above they would like to part
with, let me know.

73

Mike, N6WIG

mikhael@hpcmmp13.sj.hp.com

From boatanchors@theporch.com Sat Dec 30 18:10:07 1995
From: "Manuel A. Maseda" <mmaseda@Packet.Net>
Subject: WTB Collins ART-13
Message-ID: <01BAD6D8.D02251A0@clw003.packet.net>

I'm looking to buy a Collins ART-13. Willing to pay top dollar for unit in
excellent to mint condition.

Manuel WF1J

From boatanchors@theporch.com Sat Dec 30 18:10:07 1995
From: jmillier@teleteam.com (Jay H. Miller)
Subject: WTB Heathkit RF Probe
Message-ID: <v01510103ad0a1b20f277@[205.198.110.20]>

I need an RF probe for a Hethkit IM-11 VTVM.

Please e-mail asking price and condition.

Thanks.

73 de Jay

***** ##### *****
Jay H. Miller, KK5IM Dallas, Texas
The Pocket Guide to Collins Amateur Radio Equipment
jmillier@teleteam.com
***** ##### *****

From boatanchors@theporch.com Sat Dec 30 18:10:07 1995
From: MEC <danmec@inet.uni-c.dk>
Subject: WTB: PT-2 Ameco preamplifier
Message-ID: <Pine.3.89.9512301256.A10879-0100000@inet.uni-c.dk>

Does anyone have a PT-2 collecting dust ?
Need one for my 160 meter band long wire to get the USA stns
thru the noise.

tnx 73 Rag oz8ro